

**JASMINIA**

**DEADWEIGHT SURVEY REPORT**

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**JASMINIA**

**DEADWEIGHT SURVEY REPORT**

**INDEX**

**PAGE Nos.**

Index .....	1
Document History .....	2
Introduction .....	3
Location and Time .....	3
Personnel Aboard During Test .....	3
Weather Conditions .....	3
SG and Temperature of Water .....	3
Condition of Vessel .....	4-5
Drafts .....	6
Displacement, LCG, & TCG .....	7
Tanks to Come Off .....	8-9
Items to Come Off .....	10-20
Items to Go On .....	21-22
Items to Shift .....	23-24
Additional Modifications .....	25-28
Lightship Particulars .....	29-31
 <u>Appendix I</u> Tanks Included in Lightweight	
 <u>Appendix II</u> Items Included in Lightweight	
 <u>Appendix III</u> Record of Lightship Alterations	

**JASMINIA**

**DEADWEIGHT SURVEY REPORT**

**DOCUMENT HISTORY**

**Document No: 10178-101-02-2**

<b>ISSUE</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>SIGNED</b>	<b>CHECKED</b>
1	FIRST ISSUE	09/06/14	JH	BDMG
2	Vertical anchor tensions revised following receipt of anchor tension calibration report.	13/06/14	BDMG	JH

# **JASMINIA**

## **DEADWEIGHT SURVEY REPORT**

### **INTRODUCTION**

Deadweight survey for the semi-submersible accommodation vessel Jasmina. Previous inclining experiment and deadweight survey were carried out on 22 August 1982 at Danafjord, Gothenburg, Sweden, at the completion of the vessel's construction.

### **LOCATION AND TIME**

Bay of Campeche, offshore of Ciudad del Carmen, Mexico, 28-30 May 2014, with vessel in service. Drafts were recorded 29 May 2014, 10:15-10:45. Tanks/voids were sounded 29 May 2014, 10:15-11:15.

### **PERSONNEL ABOARD DURING TEST**

Derek Robertson/Jose Luis Ruelas Garcia	-	Captain
Roland Andersson	-	Chief Engineer
Oscar Ramos Mayoral	-	Chief Officer
Rodulfo Cigarroa	-	Lloyd's Register
Bradley Golden	-	Tritec Marine Limited
Jack Hawkins	-	Tritec Marine Limited
274 Others		

### **WEATHER CONDITIONS**

Wind	-	South, off Port Bow, 20 knots
Weather	-	Partly cloudy, 30°C (86°F)
Water	-	1.2m/4ft waves

### **SG AND TEMPERATURE OF WATER**

Water SG	=	1.0265 tonnes/m <sup>3</sup>
Temperature	=	28°C (83°F)

# **JASMINIA**

## **DEADWEIGHT SURVEY REPORT**

### **CONDITION OF VESSEL**

The vessel underwent the deadweight survey while in service, and therefore fully operational. Since the previous inclining experiment and deadweight survey in 1982, significant modifications have been made at various times, most of which have been identified and noted in the vessel's record of alterations to lightweight, which can be found in Appendix III. Several additional modifications that weren't previously accounted for were noted during the course of the deadweight survey, and weights for these items have been included in the "Additional Modifications" section of this report.

Any items not fitted/in their correct positions due to works being carried out are normally accounted for in the "Items to Go On" and "Items to Shift" tables. The vessel was undergoing some routine maintenance in a number of locations, resulting in some items being listed in the "Items to Shift" table. As the vessel was in service, there was nothing to add to the "Items to Go On" table.

All of the vessel's systems were operational and all equipment was positioned as normal. The two main cranes, the personnel access bridge, and the crewboat access gangway were in their stowed positions when the drafts were recorded. The cranes are considered lightweight items, but the crewboat access gangway and personnel access bridge are considered deadweight items by the vessel's staff, therefore the same has been considered in these calculations.

As the vessel was in service, crew provisions/stores were at normal working levels, and are noted in the "Items to Come Off" table. Engine/machinery stores were generally at normal working levels, and all items have been identified within this report.

Tank states were as detailed on the "Tanks of Come Off" table. Small tanks (headers, expansion tanks, etc.) which were at normal working levels were ignored, and therefore regarded as included in the lightship weight.

Unless noted otherwise, any tanks and voids not specifically listed on the "Tanks to Come Off" table were sounded and found to be dry. Bilges were checked, and found to be dry, except as noted in the "Items to Come Off" table.

The vessel's cross bracings are continuously monitored by flooding sensors which are routinely inspected. As no flooding was reported, these spaces have been assumed to be dry. This was confirmed the week prior to the deadweight survey during the course of the vessel's routine maintenance and inspections, at which time all cross bracings and their flooding sensors were checked.

## **JASMINIA**

### **DEADWEIGHT SURVEY REPORT**

#### **CONDITION OF VESSEL (Continued)**

The vessel was anchored at the time of the deadweight survey, and the current status of anchors and wires was noted. All anchors, wires, and vertical tensions are considered deadweight items and have been accounted for in the “Items to Come Off” table.

As the vessel was in service, it was not possible to significantly reduce the number of personnel on board. To minimize the number of persons, however, the drafts were recorded while the greatest number of floatel passengers were at work on the adjacent fixed installation. When the drafts were recorded, there were 280 persons on board. An additional 321 persons were away from the vessel at the time the drafts were taken, and their personal effects were accounted for in the “Items to Come Off” table.

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### DRAFTS

Two drafts were taken along each side of the vessel, and recorded as follows:-

Location		Longitudinal Position	Transverse Position	Recorded Draft (m)	Mean Draft at $\pm 17.875\text{m}$ (m)
Aft Marks	Port	-19.313	-19.540	19.05	19.08
	Stbd	-17.875	22.500	19.14	
Forward Marks	Port	19.313	-19.540	19.02	18.095
	Stbd	17.875	22.500	19.14	

Trim Between Marks = -0.015m

Heel Between Marks = 0.168°

Mean Draft at Midships = 19.0875m

#### Notes:

1. Recorded draft marks are to the underside of thrusters.
2. The forward and aft marks were recorded at different longitudinal and transverse locations. The above observed values were then interpolated to calculate the hydrostatic particulars.

## JASMINIA

### DEADWEIGHT SURVEY REPORT

#### DISPLACEMENT, LCG, & TCG

From the vessel's approved onboard stability program (Autoload) and the drafts obtained above, the following hydrostatic particulars have been determined at an SG of 1.0265 t/m<sup>3</sup>:

Displacement	=	13194.51 tonnes (SG = 1.0265)
LCG	=	0.000 metres (i.e. fwd)
LCF	=	0.000 metres (i.e. midships)
TPC	=	3.39 tonnes/cm (SG = 1.0265)
VCB	=	5.373 metres
KM <sub>T</sub>	=	18.200 metres
KM <sub>L</sub>	=	19.185 metres
TCG	=	0.009 metres (i.e. to starboard)

#### Summary of Results

Displacement as-checked	=	<b><u>13194.51 tonnes</u></b>
LCG as-checked	=	<b><u>0.000 meters fwd of midships</u></b>
TCG as-checked	=	<b><u>0.009 meters starboard of CL</u></b>



# JASMINIA

## DEADWEIGHT SURVEY REPORT

### TANKS TO COME OFF

<b>Compartment</b>	<b>Compt</b>	<b>Specific</b>	<b>Sounding</b>	<b>Weight</b>	<b>LCG</b>	<b>Long'l</b>	<b>TCG</b>	<b>Transv</b>
	<b>Location</b>	<b>Gravity</b>	<b>(m)</b>	<b>(tonnes)</b>	<b>from</b>	<b>Mmt</b>	<b>from</b>	<b>Mmt</b>
	<b>(Fr)</b>				<b>Midships</b>	<b>(t-m)</b>	<b>CL</b>	<b>(t-m)</b>
					<b>(m)</b>		<b>(m)</b>	
<b>SALT WATER</b>								
TANK01-WB.S	105-115	1.0265	4.47	199.13	33.51	6672.85	22.51	4482.02
TANK01-WB.P	105-115	1.0265	3.88	172.18	33.51	5768.89	-22.50	-3874.22
TANK02-WB.S	100-105	1.0265	FULL	226.11	29.24	6611.23	22.50	5087.48
TANK02-WB.P	100-105	1.0265	FULL	226.11	29.24	6611.23	-22.50	-5087.48
TANK03-WB.S	75-85	1.0265	0.04	9.01	14.64	131.86	22.62	203.84
TANK03-WB.P	75-85	1.0265	M/T			0.00		0.00
TANK04-WB.S	65-75	1.0265	FULL	459.84	8.12	3732.06	22.50	10346.40
TANK04-WB.P	65-75	1.0265	FULL	459.84	8.12	3732.06	-22.50	-10346.40
TANK06-WBDO.S	40-50	1.0265	FULL	459.84	-8.12	-3732.06	22.50	10346.40
TANK06-WB.P	40-50	1.0265	FULL	459.84	-8.12	-3732.06	-22.50	-10346.40
TANK07-WB.S	10-15	1.0265	FULL	226.07	-29.24	-6610.06	22.50	5086.58
TANK07-WB.P	10-15	1.0265	FULL	226.07	-29.24	-6610.06	-22.50	-5086.58
TANK08-WB.S	0-10	1.0265	5.26	236.96	-33.52	-7941.71	22.51	5333.50
TANK08-WB.P	0-10	1.0265	3.80	171.73	-33.50	-5753.64	-22.50	-3864.10
TANK22-WB.S	85-100	1.0265	M/T	0.00		0.00		0.00
TANK22-WB.P	85-100	1.0265	M/T	0.00		0.00		0.00
TANK23-WB.S	85-100	1.0265	M/T	0.00		0.00		0.00
TANK23-WB.P	85-100	1.0265	M/T	0.00		0.00		0.00
TANK32-WB.S	15-30	1.0265	M/T	0.00		0.00		0.00
TANK32-WB.P	15-30	1.0265	1.17	65.50	-22.91	-1500.63	-22.29	-1460.02
<b>DIESEL OIL</b>								
TANK05-DO.S	50-65	0.8205	2.74	218.42	0.01	2.18	22.51	4916.13
TANK05-DO.P	50-65	0.8205	3.03	241.65	0.01	2.42	-22.49	-5435.52
TANK31-DO.S	15-30	0.8205	M/T			0.00		0.00
TANK31-DO.P	15-30	0.8205	M/T			0.00		0.00
DO-SERV-TK.P	43-50	0.8205	Gauge	26.26	-7.15	-187.73	-10.39	-272.77
DO-SETT-TK.P	43-50	0.8205	Gauge	33.64	-7.15	-240.53	-7.22	-242.85
EMERG-DO-TK.S	71-73	0.8205	2.00	2.54	9.43	23.97	10.00	25.44
DO-INCIN-TK.S	48-50	0.8205	0.67	1.35	-6.35	-8.54	22.70	30.55

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### TANKS TO COME OFF (Continued)

Compartment	Compt Location (Fr)	Specific Gravity	Sounding (m)	Weight (tonnes)	LCG from Midships (m)	Long'l Mmt (t-m)	TCG from CL (m)	Transv Mmt (t-m)
<b>FRESH WATER</b>								
TANK30-FW.S	87.5-97.5	1.000	Gauge	320.00	22.75	7279.36	21.97	7031.36
TANK30-FW.P	87.5-97.5	1.000	Gauge	250.00	22.75	5687.00	-21.97	-5493.00
<b>LUBE OIL</b>								
LO-STOR-D.P	31-35	0.900	Gauge	3.06	-15.93	-48.73	-11.30	-34.58
RENO-TK.P	31-35	0.900	M/T	0.00	-15.93	0.00	-11.30	0.00
<b>HYDRAULIC OIL</b>								
238-T-1-HYD.S	23-25	0.900	M/T					
238-T-2-HYD.S	23-25	0.900	Gauge	1.08	-21.61	-23.34	26.85	29.00
238-T-3-HYD.S	25-27	0.900	Gauge	1.40	-20.41	-28.47	26.87	37.48
238-T-4-HYD.P	23-25	0.900	Gauge	1.06	-21.61	-22.95	-26.85	-28.52
238-T-5-HYD.P	25-27	0.900	Gauge	2.45	-20.41	-49.96	-26.87	-65.78
<b>MISC</b>								
BILGE-TK.P	31-37	1.000	0.15	1.50	-15.27	-22.90	-6.73	-10.10
SLUDGE.P	43-50	1.000	0.31	11.39	-7.15	-81.42	-8.80	-100.18
<b>VOID</b>								
TANK09-VOID.S	85-100	1.025	M/T			0.00		0.00
TANK09-VOID.P	85-100	1.025	M/T			0.00		0.00
TANK10-VOID.S	15-30	1.025	M/T			0.00		0.00
TANK10-VOID.P	85-100	1.025	M/T			0.00		0.00
<b>All Tanks</b>								
Totals:				4714.02	2.05	9660.31	0.26	1207.69

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>Cranes/Personnel Bridge</b>						
Nil items to come off	0.00	-	0.00	0.00	0.00	0.00
<b>Deckhouse Top</b>						
Nil items to come off	0.00	-	0.00	0.00	0.00	0.00
<b>5000 Deck</b>						
Nil items to come off	0.00	-	0.00	0.00	0.00	0.00
<b>4000 Deck/Helideck</b>						
Cleaning gear under Helideck	0.03	94-100	25.77	0.64	-9.71	-0.24
Bucket with water	0.01	85-86	18.46	0.09	6.16	0.03
Helifuel Tank No. 1	2.10	79-84	15.48	32.51	13.93	29.25
Fuel in Helifuel Tank No. 1	2.50	79-84	15.48	38.70	13.93	34.83
Helifuel Tank No. 2	2.10	79-84	15.48	32.51	12.78	26.84
Fuel in Helifuel Tank No. 2	2.50	79-84	15.48	38.70	12.78	31.95
Helifuel Tank No. 3	2.10	79-84	15.48	32.51	10.45	21.95
Fuel in Helifuel Tank No. 3	2.50	79-84	15.48	38.70	10.45	26.13
Helifuel Tank No. 4	2.10	79-84	15.48	32.51	8.74	18.35
Fuel in Helifuel Tank No. 4	2.50	79-84	15.48	38.70	8.74	21.85
Office supplies & equipment, Heli Control Tower	0.15	93-99	20.03	3.00	21.21	3.18
Jasminia "welcome" sign	0.02	91-92	22.20	0.44	14.56	0.29
Steel stock (pipes, profiles, corrugated plates) & cable reels, Cargo Platform Stbd	15.90	62-75	7.17	114.00	7.89	125.45
3 x wooden benches, port side	0.10	61-66	3.86	0.39	-15.46	-1.55
Portable helifuel tank, aft stbd (no gauge)	2.00	30-33	-16.93	-33.86	10.08	20.16
Portable helifuel tank, aft stbd (no gauge)	2.00	33-36	-14.97	-29.94	10.08	20.16
Portable helifuel tank, aft stbd (150 ltr gauge)	2.00	36-39	-12.98	-25.96	10.08	20.16
Portable helifuel tank, aft stbd (no gauge)	0.30	39-41	-11.38	-3.41	10.08	3.02
Portable helifuel tank, aft stbd (no gauge)	0.30	41-43	-10.08	-3.02	10.08	3.02
2 x small oil drums, aft stbd	0.12	41-43	-9.84	-1.18	9.31	1.12
Steel stock (plate), aft stbd	2.40	33-39	-13.32	-31.97	6.39	15.34
Portable helifuel tank, aft ctr (120 ltr gauge)	2.00	35-38	-13.71	-27.42	4.88	9.76
Portable helifuel tank, aft ctr (2650 ltr gauge)	4.00	35-38	-13.71	-54.84	2.39	9.56
Steel cradles, aft ctr	0.45	34-35	-14.94	-6.72	-0.86	-0.39
Ladder & bucket	0.01	59-60	1.42	0.01	-4.49	-0.04
Welder's tools in locker (Dolfino), aft	0.40	31-34	-15.99	-6.40	-8.95	-3.58

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>4000 Deck/Helideck (Continued)</b>						
Personnel basket, aft	0.20	35-36	-14.26	-2.85	-18.80	-3.76
Portable generator, port	0.70	42-46	-8.78	-6.15	-6.59	-4.61
Portable generator, port	0.70	46-50	-6.18	-4.33	-6.59	-4.61
Catering container, port	4.40	37-50	-9.23	-40.61	-11.84	-52.10
Carpenter's container, port	4.60	50-54	-2.94	-13.52	-11.84	-54.46
<b>3000 Deck</b>						
GMDSS station, Bridge	0.07	93-94	23.40	1.52	18.76	1.22
Spare deck gear, Chief Officer/Safety Office	0.03	91-93	22.55	0.68	18.85	0.57
Documentation, Captain/Chief Engineer Document Store	0.18	80-82	15.51	2.79	15.53	2.80
Computer & A/V equipment, Chief Officer/Safety Office locker	0.06	88-90	20.74	1.24	14.15	0.85
Documentation & office supplies, Bridge	0.03	93-94	23.58	0.71	15.06	0.45
Catering equipment & provisions, Bridge	0.13	96-97	25.49	3.31	12.53	1.63
Deck crew store, supplies & personal equipment, Store	0.26	87-91	20.33	5.29	11.32	2.94
Computer server & electrical supplies, Electrical Room	0.63	82-86	17.62	11.10	8.50	5.36
Computer & A/V equipment, Small Conference Room	0.04	87-91	20.42	0.82	6.75	0.27
Documents & microwave, Induction Office	0.08	87-91	19.51	1.56	4.73	0.38
Office equipment & supplies, PEMEX office	0.56	82-91	18.51	10.37	1.96	1.10
Paper & office supplies, Administration locker	0.18	78-80	14.07	2.46	2.68	0.47
Artificial plant, Administration	0.02	79-80	14.38	0.29	4.32	0.09
Electrical supplies, Electrical Locker port	0.01	82-84	16.87	0.08	-7.48	-0.04
Locker with cleaning supplies & hand dryer, Changing Room	0.21	84-85	17.79	3.74	-8.39	-1.76
Garbage, Changing Room	0.01	88-90	20.42	0.20	-13.42	-0.13
Documents, alleyway port	0.02	91-92	22.15	0.33	-19.34	-0.29
Vacuum, alleyway port	0.02	91-92	22.13	0.33	-20.00	-0.30
Documents, document store, port alleyway	0.16	91-93	22.46	3.59	-21.36	-3.42
Portable vent fan & duct, port alleyway	0.10	80-92	19.68	1.97	-16.18	-1.62
Lifejackets & safety signage, Safety Store port	0.06	64-66	4.93	0.30	-11.47	-0.69
Safety gear, coveralls, labels, guitars, trophies, games, Deck Store port	0.11	64-66	4.93	0.54	-16.22	-1.78
Documentation & office supplies, Bridge	0.02	99-100	26.77	0.40	19.98	0.30
Documentation & office supplies, Bridge	0.07	94-95	24.05	1.68	21.37	1.50
Office supplies & equipment, office computer room	0.40	91-93	22.26	8.90	20.72	8.29
Office supplies & equipment, 2nd Officer's office	0.45	87-91	20.42	9.19	20.63	9.28
Office supplies & equipment, Chief Officer/Safety Office	0.70	87-93	20.92	14.64	17.29	12.10

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>3000 Deck (Continued)</b>						
Office supplies & equipment, Captain/Chief Engineer Office	1.40	80-87	16.81	23.53	19.20	26.88
Cafeteria provisions & equipment, Break Room stbd	0.25	75-80	12.86	3.22	19.06	4.77
Locker with line, gangway platform	0.06	70-71	8.22	0.49	19.38	1.16
Supplies & equipment, gangway control	0.06	70-72	8.90	0.53	17.53	1.05
Ladders & wire, gangway platform	0.05	61-62	2.35	0.12	18.65	0.93
Locker with line, gangway platform	0.06	60-61	1.80	0.11	19.17	1.15
Locker with safety gear, stbd deck	0.22	69-70	7.70	1.69	13.91	3.06
Steel framework around gangway shelter	0.20	59-61	1.50	0.30	17.06	3.41
Supplies & equipment, Logistics office	0.23	70-73	9.04	2.08	11.12	2.56
Supplies & equipment, Administration	0.24	70-73	8.91	2.14	6.25	1.50
Office & medical supplies, Hospital	0.70	62-70	5.50	3.85	8.12	5.68
Office supplies, store ctr	0.34	64-67	5.52	1.88	0.00	0.00
AFFF concentrate, Fire Locker	0.12	66-67	6.01	0.72	-1.52	-0.18
Dry chemical, Fire Locker	0.12	62-63	3.20	0.37	-1.51	-0.17
Water in water tanks, Fire Locker	2.00	64-65	4.61	9.22	-1.73	-3.46
Dry chemical, Fire Locker	0.10	62-63	3.31	0.33	-3.38	-0.34
Gangway, stbd side	9.00	59-71	4.96	44.64	25.01	225.09
<b>2000 Deck</b>						
Cleaning materials, Changing Room cleaning locker	0.05	89-91	21.29	1.06	-14.40	-0.72
Ladder & spare electrics supplies, Electrical Locker port	0.02	82-84	16.84	0.34	-7.53	-0.15
Step stool, Electrical Locker stbd	0.01	82-84	16.33	0.08	7.09	0.04
Catering department office supplies, Linen Store, stbd	0.25	83-85	17.00	4.25	10.26	2.57
Safety gear, Deck Store stbd	0.27	88-91	20.94	5.65	20.26	5.47
Plumbing spares, Cleaning Locker stbd	0.26	87-88	19.22	5.00	20.24	5.26
Fan & electrical spares, Fan Room	3.90	62-80	8.82	34.40	4.08	15.91
AFFF concentrate, Fire Station	0.20	63-64	3.66	0.73	4.58	0.92
Dry chemicals, Fire Station	0.14	62-63	3.21	0.44	4.44	0.61
Crated materials, Laydown Area	1.62	45-48	-7.48	-12.12	14.76	23.91
Bagged garbage, Laydown Area	1.20	32-44	-12.87	-15.44	16.53	19.84
Steel plate, Laydown Area	1.20	39-44	-10.63	-12.76	12.60	15.12
Steel ring, Laydown Area	1.20	34-37	-14.26	-17.11	11.54	13.85
Steel cart, Laydown Area	1.80	31-34	-16.67	-30.01	15.71	28.28
Pennant buoy, Laydown Area	1.60	28-30	-18.36	-29.38	14.27	22.83
Wire reel, Laydown Area	0.25	31-32	-16.70	-4.18	11.91	2.98
Equipment & provisions, Crew Coffee Shop	0.16	28-38	-16.22	-2.60	10.08	1.61

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>2000 Deck (Continued)</b>						
Tools, epoxy, straps, etc., Deck Supervisor's Store	1.50	38-48	-9.56	-14.34	10.03	15.05
Lifting gear, exercise bikes, vent ducting, etc., Deck Store	11.70	28-48	-12.53	-146.60	7.35	86.00
Office equipment & supplies, General/Contractor's Office	4.10	27-59	-9.43	-38.66	1.08	4.43
Pennant wires, Pennant Deck	9.40	0-8	-34.89	-327.97	-9.66	-90.80
Cotemar medic locker, accommodation store	0.10	64-66	4.80	0.48	-11.57	-1.16
Safety gear, accommodation store	0.16	64-66	4.80	0.77	-16.08	-2.57
Catering Department spares, fwd accommodation store	0.30	83-87	17.53	5.26	-17.17	-5.15
Steel stock, passarella waiting area top	27.50	7-20	-27.34	-751.85	-9.51	-261.53
<b>Main Deck</b>						
Paper towels, toilet paper, solvents, Linen Store stbd	0.21	88-90	21.05	4.42	20.13	4.23
Pressure washer, Emergency Generator Room	0.20	63-65	4.33	0.87	11.25	2.25
Cleaning gear, fwd store	0.05	83-85	17.09	0.77	9.70	0.44
Hose, fwd deck	0.01	100-101	28.11	0.14	9.82	0.05
Fan room spares, Fan Room	0.85	62-80	8.76	7.45	6.10	5.19
Catering items, outside store cover	0.01	61-62	2.43	0.02	9.36	0.09
Electrical spares, portable ladder, Electrical Locker P	0.01	83-84	16.68	0.17	-7.44	-0.07
Cleaning equipment & supplies, Cleaning Locker P	0.06	83-85	16.81	1.01	-8.59	-0.52
Sea chest covers & miscellaneous gear, stbd alley locker	0.50	75-77	12.24	6.12	12.04	6.02
Vacuum, accommodations stbd	0.02	83-84	16.81	0.25	19.89	0.30
Steel ring & frame, stbd alley	2.00	63-67	5.08	10.16	13.49	26.98
Hoses & lines, stbd deck	0.03	71-75	10.66	0.32	26.44	0.79
Chaser hook, stbd	1.50	55-56	-1.27	-1.91	18.45	27.68
COSHH Store, Warehouse	2.10	33-38	-14.50	-30.45	14.09	29.59
Lifting gear/shackles, Rigger's Area (stbd of Warehouse)	2.40	27-47	-12.76	-30.62	17.99	43.18
Paint, International paint store, Warehouse	5.70	33-38	-14.50	-82.65	9.39	53.52
Transit materials store, Warehouse	1.80	30-33	-16.92	-30.46	15.90	28.62
Paint, Hemel paint store, Warehouse	0.40	33-38	-14.50	-5.80	17.06	6.82
Grease store, Warehouse	1.80	27-30	-18.49	-33.28	15.90	28.62
Fast flow equipment, Warehouse	3.20	29-32	-17.56	-56.19	11.21	35.87

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>Main Deck (Continued)</b>						
Hoses, stbd deck	0.03	34-35	-14.99	-0.45	31.44	0.94
Chains, dollies, hoses, aft stbd deck	0.60	25-27	-20.11	-12.07	14.55	8.73
Basket, aft stbd deck	0.30	27-30	-18.90	-5.67	31.19	9.36
Trash/recycling station, aft stbd deck	3.00	20-25	-22.36	-67.08	23.38	70.14
Crane store, stbd crane pedestal	0.12	12-18	-27.63	-3.32	17.56	2.11
Water tank, stbd aft deck	0.22	9-10	-31.30	-6.89	21.79	4.79
Paint & tools, aft paint store	0.56	4-7	-33.88	-18.97	16.34	9.15
Trash, aft stbd deck	0.02	2-3	-35.76	-0.54	19.93	0.30
Chair, wire reels, aft stbd deck	0.40	0-3	-36.42	-14.57	17.40	6.96
Refrigerant store, stbd deck	0.39	49-51	-4.60	-1.79	21.62	8.43
CO <sub>2</sub> & refrigerant store, stbd deck	2.00	47-49	-6.02	-12.04	21.45	42.90
O <sub>2</sub> store, stbd deck	3.60	45-47	-7.31	-26.32	21.45	77.22
Acetylene/butane store, stbd deck	1.40	43-45	-8.60	-12.04	21.45	30.03
Chemical container, stbd deck	5.10	38-40	-12.61	-64.31	29.32	149.53
Washing tools container, stbd deck	2.20	35-38	-13.26	-29.17	29.51	64.92
Forklift, stbd deck	4.80	29-35	-15.97	-76.66	28.44	136.51
Pressure washer, aft stbd deck	2.50	27-32	-17.54	-43.85	25.88	64.70
Solvent drums, aft deck	1.80	13-18	-26.63	-47.93	13.63	24.53
Gas bottles in cages, aft deck	1.90	18-20	-24.88	-47.27	13.32	25.31
Trash in containers, aft deck	3.10	7-16	-29.82	-92.44	11.23	34.81
Steel stock, aft deck	1.20	7-16	-29.82	-35.78	10.42	12.50
Trash in containers, aft deck	2.80	7-16	-29.82	-83.50	9.09	25.45
Portable water tank, aft deck	0.03	14-16	-27.68	-0.83	6.89	0.21
Cage with grease, etc., aft deck	0.60	8-10	-31.43	-18.86	4.81	2.89
Container with empty drums, aft deck	1.50	5-8	-33.29	-49.94	4.64	6.96
Personnel basket (old), aft deck	0.20	0-2	-36.62	-7.32	3.79	0.76
Personnel basket (new), aft deck	0.30	3-5	-34.79	-10.44	0.63	0.19
Gas bottles in cage, aft deck	1.10	20-22	-24.04	-26.44	-8.60	-9.46
Steel container (empty), aft deck	0.30	18-21	-24.74	-7.42	-1.61	-0.48
Dumpster (empty), aft deck	1.00	0-3	-36.40	-36.40	-3.50	-3.50
Grappling anchor, aft deck	2.00	8-10	-31.29	-62.58	-9.03	-18.06
Steel frame, aft deck	0.50	7-10	-31.88	-15.94	-10.58	-5.29
Spare anchor, aft deck	9.00	8-11	-31.31	-281.79	-13.43	-120.87
Gas bottle, aft port winch controls	0.10	16-17	-26.61	-2.66	-30.59	-3.06

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>Main Deck (Continued)</b>						
Crane store & pressure washers, port crane pedestal	1.50	12-18	-27.63	-41.45	-17.56	-26.34
Steel stock, aft deck, port	3.90	20-22	-23.59	-92.00	-11.60	-45.24
Welding machine, aft deck port	0.12	18-20	-24.78	-2.97	-20.34	-2.44
Gas bottles in cage, aft deck	1.60	26-27	-20.06	-32.10	-8.82	-14.11
2 x empty water tanks, aft deck port	0.10	23-25	-21.80	-2.18	-21.17	-2.12
Gas bottles in cage, aft deck	0.90	26-27	-20.08	-18.07	-11.96	-10.76
Welder's Workshop tools	5.50	27-38	-15.99	-87.95	1.40	7.70
Welder's Workshop stock	2.50	27-38	-15.99	-39.98	1.40	3.50
Steel stock, wire reels, miscellaneous stores, Main Warehouse	10.00	38-45	-10.53	-105.30	1.58	15.80
Chaser hook, port	1.50	28-30	-18.40	-27.60	-8.67	-13.01
Steel stock, aft port	7.90	29-31	-17.77	-140.38	-5.92	-46.77
PEMEX "1" Store, Warehouse stbd	11.50	38-48	-9.63	-110.75	11.71	134.67
PEMEX "2" Store, Warehouse port	16.60	43-59	-3.82	-63.41	0.77	12.78
Crew lockers, Warehouse fwd	0.30	58-59	0.77	0.23	-2.06	-0.62
Spare linen, port accommodation store	0.55	64-66	4.93	2.71	-16.00	-8.80
Catering spares, port accommodation store	1.15	64-66	4.93	5.67	-11.53	-13.26
Scaffolding, port accommodations alleyway	3.00	31-80	-0.57	-1.71	-13.96	-41.88
Mooring lines, rubber mats, large hoses, port inbd accomms alleyway	6.50	31-80	-0.57	-3.71	-4.66	-30.29
Portable welding machine & fire extinguisher, port fwd	0.05	93-94	23.57	1.18	-23.39	-1.17
<b>Lower Deck</b>						
Thruster spares, fwd stbd column entrance	0.15	88-89	20.03	3.00	22.75	3.41
Rigger's wire, fwd stbd column entrance	0.60	98-100	26.99	16.19	23.35	14.01
Battery box, fwd stbd column entrance	0.40	95-96	24.77	9.91	24.56	9.82
Rigger's gear, fwd stbd column entrance	0.13	93-95	23.89	3.11	26.92	3.50
Vaccum, stbd alleyway fwd	0.02	83-84	16.74	0.25	21.95	0.33
Clean/dirty linen, Laundry	1.40	70-85	12.77	17.88	23.57	33.00
Cleaning materials, Laundry	0.12	70-72	8.65	1.04	23.44	2.81
Water cooler, stbd lobby	0.02	81-82	15.64	0.31	11.60	0.23
Refrigerated/frozen provisions, Freefer Stores	6.12	67-77	9.50	58.14	14.50	88.74
Fruits, vegetables, dairy, Refrigerated Stores	7.79	67-77	10.10	78.68	8.12	63.25
Dry provisions, Provision Store	12.46	58-67	3.34	41.61	13.56	168.93
Gym equipment & weights, Gymnasium	1.55	57-65	2.47	3.83	23.03	35.70
Garbage, Wash Room	0.01	65-66	5.75	0.03	21.70	0.11
Prepared food, Food Preparation Area	0.40	62-67	4.73	1.89	7.23	2.89
Garbage, Food Preparation Area	0.02	58-60	0.84	0.01	9.07	0.14



# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>Lower Deck (Continued)</b>						
Boxed food, Food Preparation Area	0.03	58-60	0.94	0.02	7.07	0.18
Tools & equipment, Carpenter's Workshop	7.00	50-58	-2.30	-16.10	-2.82	-19.74
Office supplies & equipment, Engineer's office	1.60	50-57	-2.30	-3.68	25.05	40.08
2 x ice machines, Stores Square	1.00	55-57	-1.17	-1.17	16.23	16.23
Provisions & cooking utensils, ex-Crew Change Room/Day Room)	0.50	52-58	-1.60	-0.80	2.79	1.40
Provisions & empty crates, Stores Square	0.70	50-58	-1.60	-1.12	11.42	7.99
Seating, tables, games table, TV, Crew Day Rooms	0.54	85-100	22.80	12.31	19.81	10.70
Catering stores, stbd stairway locker	0.71	80-85	16.88	11.95	14.25	10.09
Ice cream & coffee servery, Self Service Area	0.30	72-75	10.58	3.17	4.72	1.42
Spare linen & seating, Linen Locker, stbd lobby	4.30	83-85	17.03	73.23	9.12	39.22
Glasses, dishes, drinks, desserts, Stbd Mess	0.46	86-100	23.09	10.62	5.88	2.70
Fidges with food, Self Service Area	2.00	80-81	15.22	30.44	4.76	9.52
Toaster & bread servery, Self Service Area	0.03	80-81	15.22	0.46	3.34	0.10
Food, Self Service Area	0.35	73-78	12.03	4.21	0.00	0.00
Cleaning materials, dishes, Scullery	0.60	81-86	16.96	10.18	0.00	0.00
Trays, dishes, cutlery, Self Service Area	0.45	73-81	12.55	5.65	-4.69	-2.11
Dishes, drinks, etc.,Port Mess	0.09	86-91	20.11	1.81	-5.07	-0.46
Office supplies & equipment, port store	1.10	94-100	25.54	28.09	-6.93	-7.62
Office supplies & equipment, Cotemar rep's office	0.45	94-100	25.54	11.49	-9.92	-4.46
Table, chairs, games table, Games Room, port	0.50	86-100	22.70	11.35	-14.51	-7.26
Table & chairs, Conference Room, port	0.12	86-100	22.70	2.72	-19.98	-2.40
Ladder & hoses, fwd port column entrance	0.05	85-100	26.58	1.33	-23.44	-1.17
Spare motor, fwd port column entrance	0.05	95-96	22.48	1.12	-25.76	-1.29
Battery box, fwd port column entrance	0.40	88-90	20.66	8.26	-22.55	-9.02
Catering stores, port stairway locker	0.98	80-85	16.87	16.53	-14.21	-13.93
Tables, seating, TV, plants, TV Room port fwd	0.50	70-85	13.17	6.59	-22.05	-11.03
Office equipment & supplies, Steward's Office	1.00	70-77	11.32	11.32	-12.28	-12.28
AV equipment, library, Projector Room	0.25	70-73	9.44	2.36	-11.99	-3.00
Bonded Store	0.71	70-75	9.64	6.84	-8.91	-6.33
Tables, seating, TV, plants, TV Room port aft	0.80	50-70	2.10	1.68	-21.73	-17.38
Galley servery, Galley	0.03	70-71	8.70	0.26	0.00	0.00
Fridge contents, Galley port fwd	0.03	69-71	8.20	0.21	-4.71	-0.12
Baking trays, Galley port fwd	0.03	68-69	7.28	0.22	-4.06	-0.12
Fruits & vegetables, Galley stbd fwd	0.01	68-70	7.60	0.08	4.59	0.05
Spare equipment, Cinema	0.30	50-55	-2.92	-0.88	-7.18	-2.15

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>Lower Deck (Continued)</b>						
Food provisions, Galley port fwd	0.05	66-69	6.44	0.32	-2.98	-0.15
Cooked foods, Galley	0.13	63-67	4.88	0.61	0.00	0.00
Provisions, baked goods, Galley port aft	0.04	58-63	2.04	0.08	-4.25	-0.17
Refrigerated goods, Galley port aft	0.02	58-60	1.11	0.02	-2.63	-0.05
Warm foods in oven, Galley port aft	0.20	58-60	1.11	0.22	-1.32	-0.26
Food, preparation area, Galley stbd	0.08	63-67	4.96	0.40	4.15	0.33
Trays, Galley aft stbd	0.16	58-60	1.04	0.17	2.47	0.40
Fuel samples, Garbage Room	0.60	43-46	-8.98	-5.39	20.61	12.37
Garbage & spars, Incinerator Room	0.05	43-50	-7.68	-0.38	24.73	1.24
Spare motors & garbage, Compressor Room	3.30	30-50	-13.66	-45.08	22.78	75.17
Spares, Outbd Motor Room	0.38	48-50	-5.47	-2.08	14.92	5.67
Tools & spares/workbench, Outbd Motor Room	0.25	30-33	-16.67	-4.17	16.88	4.22
Tools & spares, aft stbd column entrance	0.05	30-35	-16.38	-0.82	5.96	0.30
Battery box, aft stbd column entrance	0.40	23-25	-21.93	-8.77	21.95	8.78
Spare motors, aft stbd column entrance	0.08	19-20	-24.85	-1.86	26.51	1.99
Pressure washer, aft stbd column entrance	0.03	17-18	-25.85	-0.78	25.42	0.76
Wire reels & garbage, aft stbd column entrance	0.62	16-18	-26.77	-16.60	24.03	14.90
Water in bilge, aft stbd column entrance	0.15	21-24	-22.71	-3.50	19.57	3.02
Wire reels, aft stbd column entrance	0.25	15-16	-27.36	-6.84	19.65	4.91
Washer/dryer, aft stbd column entrance	0.15	16-19	-26.56	-3.98	18.86	2.83
Fuel injectors, cross alley stbd	0.20	27-28	-19.50	-3.90	13.51	2.70
Tools & spares, Inbd Motor Room	0.19	30-33	-16.93	-3.22	10.86	2.06
Spare mooring lines, stbd crane pedestal	0.80	15-18	-27.06	-21.65	17.29	13.83
Lighting, cross alley stbd	0.11	29-30	-18.49	-2.03	10.79	1.19
Documents, provisions, Engine Control Room	0.10	15-27	-23.76	-2.38	13.68	1.37
Steel stock, cross alley ctr	1.80	27-28	-19.47	-35.05	6.53	11.75
Tools & spares, Fwd Switchboard Room	0.22	21-27	-21.51	-4.73	6.29	1.38
Tools & spares, Aft Switchboard Room	0.30	15-21	-25.63	-7.69	6.29	1.89
Spare motors, Inbd Motor Room	0.02	46-47	-6.98	-0.14	5.77	0.12
Tools & spares, Inbd Motor Room	0.60	30-36	-16.42	-9.85	6.21	3.73
Lifting gear, cross alley ctr	0.06	29-30	-18.15	-1.09	0.64	0.04
Tools & spares, Electrical Shop	12.00	15-27	-23.71	-284.52	0.44	5.28
Engine stores, Engine Stores port	15.00	15-27	-22.16	-332.40	-7.85	-117.75
Engine stores, Central Store	25.90	30-50	-11.17	-289.30	2.84	73.56

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>Lower Deck (continued)</b>						
Spares, FW Cooler Room	8.50	30-50	-11.17	-94.95	-2.70	-22.95
Steel stock, cross alley port	0.85	27-28	-19.37	-16.46	-4.92	-4.18
Portable foam station, cross alley port	0.06	29-30	-18.17	-1.09	-7.37	-0.44
Pipes & blanks, Boiler Room	0.35	15-20	-25.83	-9.04	-11.63	-4.07
Steel stock, Boiler Room	0.35	18-20	-24.86	-8.70	-17.43	-6.10
Spare valve, Boiler Room	0.30	28-29	-18.89	-5.67	-16.83	-5.05
Spare mooring lines, port crane pedestal	0.60	15-18	-26.88	-16.13	-17.06	-10.24
Wheeled carts, FW Generator Room	0.09	32-35	-15.26	-1.37	-16.02	-1.44
Waste water, FW Generator Room	0.15	32-34	-15.58	-2.34	-16.72	-2.51
Spare pumps/flanges, FW Generator Room	0.78	37-46	-10.47	-8.11	-17.09	-13.24
Miscellaneous spares, FW Generator Room	3.00	46-50	-6.10	-18.30	-12.69	-38.07
Fan, vacuum, FW Generator Room	0.05	48-50	-5.51	-0.28	-16.10	-0.81
Garbage, port aft column entrance	0.22	24-26	-20.72	-4.56	-18.21	-4.01
Electric saw & metal frame, aft port column entrance	0.60	23-27	-20.72	-12.43	-21.34	-12.80
Lamp disposal equipment, aft port column entrance	0.20	15-17	-26.90	-5.38	-21.22	-4.24
Battery box, aft port column entrance	0.40	15-17	-26.90	-10.76	-23.17	-9.27
Gas bottles, aft port column entrance	0.20	26-27	-20.30	-4.06	-24.91	-4.98
Spare stee, aft port column entrance	0.05	24-26	-20.95	-1.05	-25.00	-1.25
Flange, aft port column staircase	0.15	24-25	-21.54	-3.23	-24.54	-3.68
Trash (lightbulbs), aft port column entrance	0.08	20-22	-23.93	-1.91	-26.45	-2.12
Pressure washer, aft port column entrance	0.06	21-22	-23.31	-1.40	-26.09	-1.57
Spare motors, aft port column entrance	0.15	21-22	-23.31	-3.50	-27.16	-4.07
Gasbosster pump, aft port column entrance	0.02	25-26	-20.69	-0.41	-23.82	-0.48
Fuel injector, aft port column entrance	0.05	29-30	-18.22	-0.91	-21.66	-1.08
Workshop tools & spares, Workshop	23.50	30-40	-14.09	-331.12	-22.32	-524.52
Store under Workshop	2.00	30-40	-14.09	-28.18	-22.32	-44.64
Hoses, flanges, gasket material, port engine alleyway	0.80	40-50	-7.70	-6.16	-18.14	-14.51
Engine stores, Port E/R Store	30.00	40-50	-7.77	-233.10	-22.46	-673.80
Engine stores, Port E/R Store DB	9.00	40-50	-7.77	-69.93	-22.46	-202.14
3 x sections scaffolding & personnel platform, port (for reading drafts)	0.08	55-60	-0.17	-0.01	-26.52	-1.99
Pasarella	8.50	5-15	-35.50	-301.75	-12.00	-102.00

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>Box Bottom</b>						
Nil Items to Come Off	0.00	-	0.00	0.00		0.00
<b>Column Stringer 5</b>						
Nil Items to Come Off	0.00	-	0.00	0.00		0.00
<b>Column Stringer 4</b>						
Nil Items to Come Off	0.00	-	0.00	0.00		0.00
<b>Column Stringer 3</b>						
Nil Items to Come Off	0.00	-	0.00	0.00		0.00
<b>Column Stringer 2</b>						
Nil Items to Come Off	0.00	-	0.00	0.00		0.00
<b>Column Stringer 1</b>						
Nil Items to Come Off	0.00	-	0.00	0.00		0.00
<b>Pontoon Deck</b>						
Nil Items to Come Off	0.00	-	0.00	0.00		0.00
<b>Pontoon Bottom</b>						
Bin, Thruster Room Sb	0.01	98-99	26.50	0.27	20.70	0.21
Rubber Hose, Thruster Room Sb	0.02	97-98	25.60	0.51	18.40	0.37
Scaffolding, Thruster Room Sb	0.25	95-97	25.00	6.25	19.50	4.88
Chain Block, Thruster Room Sb	0.10	95-96	24.60	2.46	19.50	1.95
Oil Drum, Thruster Room Sb	0.02	94-95	24.00	0.48	24.30	0.49
Scaffolding Walkways, Thruster Room Sb	0.25	91-94	22.70	5.68	23.50	5.88
Chain Block, Thruster Room Sb	0.10	92-93	22.80	2.28	19.50	1.95
Scaffolding, Thruster Room Sb	0.12	91-93	22.50	2.70	19.20	2.30
Scaffolding, Thruster Room Sb	0.15	89-91	21.10	3.17	20.20	3.03

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO COME OFF (Continued)

Item	Weight (t)	Frame No	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
<b>Pontoon Bottom (continued)</b>						
Spare Flanges, Sewage Room Sb	0.02	39-40	-11.70	-0.18	26.80	0.40
Workbench, Sewage Room Sb	0.04	36-37	-13.70	-0.55	22.30	0.89
Spare Flanges, Sewage Room Sb	0.02	35-36	-14.40	-0.29	24.60	0.49
Chemical Drum, Sewage Room Sb	0.01	34-35	-15.00	-0.15	18.00	0.18
Chemical Drums, Sewage Room Sb	0.03	30-32	-17.20	-0.52	18.20	0.55
Workbench, Sewage Room Ps	0.04	38-39	-12.40	-0.50	-22.90	-0.92
Chemical Drums, Sewage Room Ps	0.03	38-40	-12.00	-0.36	-17.90	-0.54
Rubbish, Sewage Room Ps	0.05	31-33	-16.60	-0.83	-22.50	-1.13
Spare Flange, Thruster Room Ps	0.10	27-28	-19.50	-1.95	-21.40	-2.14
Flange, Thruster Room Ps	0.04	25-26	-21.00	-0.84	-18.40	-0.74
Assorted Spares, Thruster Room Ps	0.03	17-18	-25.80	-0.77	-18.50	-0.56
<b>General</b>						
Passengers/Crew on Board (280 Persons)	21.00	0-105	8.38	175.98	-2.93	-61.53
Passengers/Crew Effects (601 Persons)	15.03	0-105	8.38	125.91	-2.93	-44.02
Wire on Winch 1 (776m)	13.42	96-101	26.70	358.44	26.72	358.71
Wire on Winch 2 (830m)	14.36	91-96	23.10	331.69	28.20	404.92
Wire on Winch 3 (868m)	15.02	20-25	-23.10	-346.88	28.20	423.46
Wire on Winch 4 (846m)	14.64	15-20	-26.70	-390.78	26.72	391.07
Wire on Winch 5 (756m)	13.08	15-20	-26.70	-349.20	-26.72	-349.47
Wire on Winch 6 (1004m)	17.37	20-25	-23.10	-401.23	-28.20	-489.81
Wire on Winch 7 (1323m)	22.89	91-96	23.10	528.71	-28.20	-645.44
Wire on Winch 8 (819m)	14.17	96-101	26.70	378.30	-26.72	-378.59
Vertical Anchor Tension, Wire 1	8.80	96-101	26.00	228.80	26.20	230.56
Vertical Anchor Tension, Wire 2	9.90	91-96	23.30	230.67	28.10	278.19
Vertical Anchor Tension, Wire 3	8.80	20-25	-23.30	-205.04	28.10	247.28
Vertical Anchor Tension, Wire 4	8.30	15-20	-26.00	-215.80	26.20	217.46
Vertical Anchor Tension, Wire 5	8.20	15-20	-26.00	-213.20	-26.20	-214.84
Vertical Anchor Tension, Wire 6	7.60	20-25	-23.30	-177.08	-28.10	-213.56
Vertical Anchor Tension, Wire 7	6.90	91-96	23.30	160.77	-28.10	-193.89
Vertical Anchor Tension, Wire 8	7.50	96-101	26.00	195.00	-26.20	-196.50
Marine growth (15.0 kg/m <sup>2</sup> x 6538m <sup>2</sup> )	98.07	0-115	0.00	0.39	0.04	3.73
<b>Total Items to Come Off</b>	<b>843.46</b>		<b>-5.52</b>	<b>-4652.42</b>	<b>0.06</b>	<b>54.27</b>

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO GO ON

Item	Weight (tonnes)	Frame No	LCG from Midships (m)	Long'l Mmt (t-m)	TCG from CL (m)	Transv Mmt (t-m)
<b>Cranes/Personnel Bridge</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Deckhouse Top</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>54000 Deck</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>4000 Deck</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>3000 Deck</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>2000 Deck</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Main Deck</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Lower Deck</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Box Bottom</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO GO ON (Continued)

Item	Weight (tonnes)	Frame No	LCG from Midships (m)	Long'l Mmt (t-m)	TCG from CL (m)	Transv Mmt (t-m)
<b>Column Stringer 5</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Column Stringer 4</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Column Stringer 3</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Column Stringer 2</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Column Stringer 1</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Pontoon Deck</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Pontoon Bottom</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>General</b>						
Nil Items to Go On	0.00	-	0.00	0.00	0.00	0.00
<b>Total Items to Go On</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ITEMS TO SHIFT

Item	Weight (tonnes)	From	To	Long'l Mmt (t-m)	Transv Mmt (t-m)
<b>Cranes/Personnel Bridge</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Deckhouse Top</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>5000 Deck</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>4000 Deck</b>					
Steel plates	0.45	Frs. 83-85 CL	Under Helideck	2.48	-6.69
<b>3000 Deck</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>2000 Deck</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Main Deck</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Lower Deck</b>					
Cylinder head covers	0.06	Frs. 47-49 Motor Rm	Engine	-0.30	0.00
<b>Box Bottom</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00



**JASMINIA**

**DEADWEIGHT SURVEY REPORT**

**ITEMS TO SHIFT (Continued)**

<b>Item</b>	<b>Weight (tonnes)</b>	<b>From</b>	<b>To</b>	<b>Long'l Mmt (t-m)</b>	<b>Transv Mmt (t-m)</b>
<b>Column Stringer 5</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Column Stringer 4</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Column Stringer 3</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Column Stringer 2</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Column Stringer 1</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Pontoon Deck</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Pontoon Bottom</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>General</b>					
Nil Items to Shift	0.00	-	-	0.00	0.00
<b>Total Items to Shift</b>	<b>0.51</b>	<b>-</b>	<b>-</b>	<b>2.18</b>	<b>-6.69</b>

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ADDITIONAL MODIFICATIONS

During the course of the present deadweight survey, some items were discovered to have been added to the vessel and the weights of these items have not been included in the record of lightweight alterations.

A summary of this information is listed and calculated below, some of which has been based on information provided by the vessel, and some of which has been calculated based on measurements made during the deadweight survey.

Item	Weight (tonnes)	Frame No	LCG from Midships (m)	Long'l Mmt (t-m)	TCG from CL (m)	Transv Mmt (t-m)	VCG A/Base (m)	Vert'l Mmt (t-m)
A/C unit, Heli Control Tower Top, 5000 Deck	0.02	94-95	23.87	0.48	21.21	0.42	38.09	0.76
Deck doublers under Helideck, 4000 Deck	7.54	85-100	22.75	171.44	13.87	104.52	35.33	266.25
Heli Station Pump, 4000 Deck	1.25	79-83	15.49	19.36	6.80	8.50	36.83	46.04
Heli Fuel Save-All, fwd, 4000 Deck	3.03	79-84	15.60	47.22	10.44	31.60	35.93	108.76
3 x A/C units, fwd, 4000 Deck	0.12	86-88	19.14	2.30	-4.00	-0.48	35.73	4.29
3 x A/C units, Heli Control Tower, 4000 Deck	0.08	95-97	25.17	2.01	18.89	1.51	35.73	2.86
Satellite dish, 4000 Deck	0.05	72-73	9.96	0.50	-2.39	-0.12	36.33	1.82
Fwd pipe rack, Cargo Platform Stbd, 4000 Deck	0.40	71-72	9.24	3.70	9.36	3.74	36.83	14.73
A/C unit (Trane) & steel fendering, aft ctr	4.30	29-33	-17.18	-73.87	-1.17	-5.03	34.75	149.43
A/C unit (Trane) between 4000 & 5000 Decks	7.60	68-76	-9.43	-71.67	0.00	0.00	39.33	298.91
Transformer, Bridge port, 3000 Deck	0.06	99-100	26.99	1.62	13.20	0.79	32.95	1.98
Locker & phone booths, Administration, 3000 Deck	0.30	74-80	13.02	3.91	3.24	0.97	34.39	10.32
"Cotemar" signage, house side port, 3000 Deck	0.08	85-88	19.19	1.44	-22.56	-1.69	33.99	2.55
"Cotemar" signage, house side stbd, 3000 Deck	0.08	85-88	19.19	1.44	2.56	0.19	33.99	2.55
Document archive locker bulkhead, stbd, 3000 Deck	0.02	80-82	15.46	0.31	14.69	0.29	33.75	0.68
4 x benches, table, outside Administration, 3000 Deck	0.09	64-79	7.49	0.67	15.15	1.36	33.39	3.01
Seating, water fountain, digital displays, Administration, 3000 Deck	0.18	73-80	12.61	2.27	8.71	1.57	33.49	6.03
Logistics Office bulkheads, 3000 Deck	0.07	70-73	9.04	0.59	11.12	0.72	34.04	2.21

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ADDITIONAL MODIFICATIONS (Continued)

Item	Weight (tonnes)	Frame No	LCG from Midships (m)	Long'l Mmt (t-m)	TCG from CL (m)	Transv Mmt (t-m)	VCG A/Base (m)	Vert'l Mmt (t-m)
2 x A/C units, under 4000 cabins, 3000 Deck	0.08	29-44	-13.77	-1.10	4.86	0.39	34.79	2.78
2 x water tanks, Fire Locker ctr, 3000 Deck	0.49	64-65	4.61	2.27	-1.73	-0.85	34.04	16.79
A/C unit, 3000 Deck	0.03	60-61	1.94	0.06	-2.82	-0.08	67.79	2.03
Cleaning locker, Changing Room port, 2000 Deck	0.07	89-91	21.29	1.49	-14.40	-1.01	31.10	2.18
3 x new hand dryers, Changing Room, 2000 Deck	0.06	87-88	19.56	1.17	-1.11	-0.07	31.15	1.87
Pennant Deck & stairs/supports, Main Deck-2000 Deck	9.25	0-8	-34.75	-321.44	-10.00	-92.50	29.19	269.99
A/C unit, fwd stbd winch controls, Main Deck	0.02	95-96	25.53	0.51	30.46	0.61	28.30	0.57
Lifejacket locker with lifejackets, fwd stbd, Main Deck	0.30	100-102	28.10	8.43	19.64	5.89	27.40	8.22
4 x new hand dryers, Changing Room, Main Deck	0.08	87-88	28.10	2.25	0.00	0.00	28.50	2.28
Lifejacket locker with lifejackets, fwd ctr, Main Deck	0.30	100-102	28.10	8.43	4.83	1.45	27.40	8.22
Lifejacket locker with lifejackets, fwd port inbd, Main Deck	0.30	100-102	28.10	8.43	-14.92	-4.48	27.40	8.22
Lifejacket locker with lifejackets, fwd port outbd, Main Deck	0.30	100-102	28.10	8.43	-19.46	-5.84	27.40	8.22
Emergency (fast flow) bilge suction, fwd stbd, Main Deck	0.45	90-91	21.52	9.75	22.30	10.11	14.10	6.39
Lifejacket locker with lifejackets, stbd fwd, Main Deck	0.30	72-75	10.67	3.20	22.57	6.77	27.40	8.22
Lifejacket locker with lifejackets, stbd midships, Main Deck	0.30	60-63	2.56	0.77	22.57	6.77	27.40	8.22
Lifejacket locker with lifejackets, stbd aft accoms outbd, Main Deck	0.30	57-59	0.50	0.15	21.04	6.31	27.40	8.22
Lifejacket locker with lifejackets, stbd aft accoms inbd, Main Deck	0.30	57-59	0.50	0.15	16.48	4.94	27.40	8.22
FB/angle doublers, stbd house side	0.52	58-80	7.90	4.14	18.30	9.58	30.70	16.08
Emergency (fast flow) bilge suction, aft stbd, Main Deck	0.45	18-19	-25.58	-11.59	22.71	10.29	14.10	6.39
A/C unit, aft stbd winch controls, Main Deck	0.02	17-18	-26.32	-0.53	29.97	0.60	28.30	0.57
Steel platform, stbd aft, Main Deck	0.25	8-11	-31.11	-7.78	23.49	5.87	27.20	6.80
Bathroom module, stbd, Main Deck	3.00	51-53	-3.50	-10.50	22.30	66.90	29.05	87.15

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### ADDITIONAL MODIFICATIONS (Continued)

Item	Weight (tonnes)	Frame No	LCG from Midships (m)	Long'l Mmt (t-m)	TCG from CL (m)	Transv Mmt (t-m)	VCG A/Base (m)	Vert'l Mmt (t-m)
Ventilation pipe extentions, throughout Main Deck	1.39	0-105	0.00	0.00	0.00	0.00	29.20	40.60
SOPEP locker, aft port, Main Deck	0.27	7-8	-32.41	-8.75	-15.62	-4.22	27.80	7.51
2 x SOPEP lockers, aft port, Main Deck	0.54	2-4	-35.57	-19.21	-16.56	-8.94	27.80	15.01
Phone booth, aft port, Main Deck	0.90	8-10	-31.20	-28.08	-17.74	-15.97	28.80	25.92
A/C unit, aft port winch controls, Main Deck	0.02	18-19	-25.45	-0.51	-30.36	-0.61	28.30	0.57
FB doublers, port accommodation blocks, aft bhds, Main Deck	0.19	31	-17.23	-3.29	-13.78	-2.63	32.62	6.23
Pasarella Waiting Area structure, Main Deck	7.32	7-20	-27.34	-200.05	-9.51	-69.58	29.20	213.66
Pasarella Waiting Area seating/outfitting, Main Deck	1.03	7-20	-27.34	-28.02	-9.51	-9.75	27.80	28.50
Emergency (fast flow) bilge suction, aft port, Main Deck	0.45	18-19	-25.50	-11.56	-22.76	-10.31	14.10	6.39
Lifejacket locker with lifejackets, port side aft, Main Deck	0.30	37-40	-12.35	-3.71	-22.60	-6.78	27.40	8.22
A/C unit with protective gratings, port side, Main Deck	0.07	50-51	-4.97	-0.35	-23.77	-1.66	27.80	1.95
Workshop, Main Deck	90.00	28-48	-11.20	1008.00	13.00	1170.00	32.20	2898.00
FB/angle doublers, port house side	0.75	31-80	-0.98	-0.74	-22.05	-16.59	30.70	23.10
FB/angle doublers, port accommodation alleyway	1.50	31-80	-0.98	-1.47	-18.32	-27.57	30.70	46.19
FB/angle doublers, inbd accommodation alleyway	0.75	31-80	-0.98	-0.74	-5.32	-4.00	30.70	23.10
Lifejacket locker with lifejackets, port side midships, Main Deck	0.30	58-61	1.28	0.38	-22.60	-6.78	27.40	8.22
Lifejacket locker with lifejackets, port side fwd, Main Deck	0.30	76-79	13.21	3.96	-22.60	-6.78	27.40	8.22
Emergency (fast flow) bilge suction, fwd port, Main Deck	0.45	87-88	19.42	8.80	-23.35	-10.58	14.10	6.39
A/C unit, fwd port winch controls, Main Deck	0.02	98-99	26.66	0.53	-30.00	-0.60	28.30	0.57
New bulkheads, port side offices/stores, Lower Deck	0.03	86-100	23.28	0.69	-9.49	-0.28	25.70	0.76
New hospital, Lower Deck port	0.40	86-91	20.17	8.07	-9.93	-3.97	24.20	9.68
Compressor, fwd port column entrance, Lower Deck	0.25	92-93	22.91	5.73	-24.43	-6.11	23.35	5.84

**JASMINIA**

**DEADWEIGHT SURVEY REPORT**

**ADDITIONAL MODIFICATIONS (Continued)**

<b>Item</b>	<b>Weight (tonnes)</b>	<b>Frame No</b>	<b>LCG from Midships (m)</b>	<b>Long'l Mmt (t-m)</b>	<b>TCG from CL (m)</b>	<b>Transv Mmt (t-m)</b>	<b>VCG A/Base (m)</b>	<b>Vert'l Mmt (t-m)</b>
Steel bulkheads, aft port column entrance, Lower Deck	0.78	15-22	-23.72	-18.43	-19.38	-15.06	24.30	18.88
<b>Total Additional Modifications</b>	<b>150.45</b>		<b>-9.87</b>	<b>1484.32</b>	<b>7.46</b>	<b>1121.77</b>	<b>32.00</b>	<b>4814.25</b>

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### LIGHTSHIP PARTICULARS

#### Calculation of Lightweight Check Results

Item	Weight (tonnes)	LCG from Midships (m)	Long'l Mmt (t-m)	TCG from CL (+ port) (m)	Transv Mmt (t-m)
Vessel As-Checked	13194.51	0.00	0.00	0.01	118.75
Tanks to Come Off	-4714.02	2.05	-9660.31	0.26	-1207.69
Items to Come Off	-843.46	-5.52	4652.42	0.06	-54.27
Items to Go On	0.00	0.00	0.00	0.00	0.00
Items to Shift	-	-	2.18	-	-6.69
Lightweight (as-checked)	7637.02	-0.66	-5005.72	-0.15	-1149.89

#### Calculation of Recorded Lightweight

For comparison purposes to the vessel's previous lightweight information, the Recorded Lightweight has been calculated based on the vessel's previous lightweight check results and the ongoing record of lightweight alterations. A summary of these results can be found below, and full details of the lightweight alterations can be found in Appendix III.

Item	Weight (t)	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)	VCG (m)	Vert'l Mmt (t-m)
Previous Check (1982)	7070.00	-0.41	-2898.70	0.47	3322.90	19.93	140905.10
Alterations (1982-2014)	319.59	-9.72	-3107.51	-4.01	-1281.21	30.99	9903.57
Additional Modifications	150.45	-9.87	-1484.32	7.46	1121.77	32.00	4814.25
Lightweight (by calculation)	7540.04	-0.99	-7490.53	0.42	3163.46	20.64	155622.92

## JASMINIA

### DEADWEIGHT SURVEY REPORT

#### LIGHTSHIP PARTICULARS (Continued)

##### Calculation of Lightweight Growth

Using the Recorded Lightweight, the growth in the vessel's lightship weight has been determined below.

Item	Weight (tonnes)	LCG (m)	Long'l Mmt (t-m)	TCG (m)	Transv Mmt (t-m)
Lightweight (as-checked)	7637.02	-0.66	-5005.72	-0.15	-1149.89
Lightweight (by calculation)	7540.04	-0.99	-7490.53	0.42	3163.46
Difference	96.99	0.34			
	0.73%	of operating displacement			

##### Calculation of Revised Lightship VCG

As the difference between the calculated and as-checked lightship weights is less than 1% of the vessel's operating displacement, the results indicate that the vessel is still in compliance with the requirements of the MODU Code.

The vessel's VCG must also be updated to reflect this difference, and as is standard practice to ensure that the most conservative values are used, if the difference in lightweight is positive, the VCG of the added weight is assumed to be 1.00m above Upper Deck. If the difference in lightweight is negative, the VCG of the deducted weight is assumed to be at the baseline.

The new lightship VCG is calculated below.

Item	Weight (tonnes)	VCG A/Base (m)	Vert'l Mmt (t-m)
Lightweight (by calculation)	7540.04	20.64	155622.92
Weight Increase	96.99	28.20	2735.03
Revised VCG	7637.02	20.74	158357.95

**JASMINIA**

**DEADWEIGHT SURVEY REPORT**

**LIGHTSHIP PARTICULARS (Continued)**

**Revised Lightship Particulars**

Lightship Weight = 7637.00 tonnes

LCG = -0.66 meters (i.e. aft of Midships [*MS @ Fr 57 1/2*])

TCG = -0.15 meters (i.e. to port of CL)

VCG = 20.74 meters A/Base



# **APPENDIX I**

## **TANKS INCLUDED IN LIGHTWEIGHT**

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### APPENDIX I – TANKS INCLUDED IN LIGHTWEIGHT

The following tanks were at normal working levels, and have been regarded as part of the vessel's lightweight. Any Other small tanks, headers, etc., not listed below and not included in the "Tanks to Come Off" table above have also been regarded as part of the vessel's lightship weight.

<b>Tank</b>	<b>Sounding</b>	<b>Weight (tonnes)</b>	<b>Remarks</b>
Stbd Crane HO Tank, Crane Top Frs. 14-46 S	Full		
Port Crane HO Tank, Crane Top Frs. 14-16 P	Full		
AFFF Tank, 4000 Deck, Frs. 98-100 Ctr	Working Level	0.21	Approx. 1/2 full
AFFF Tank, 4000 Deck, Frs. 65-67 P	Working Level	0.21	Approx. 1/2 full
Tugger Winch HO Tank, Main Deck, Frs. 100-102 Ctr	Working Level	-	
Generator Water (Special), Main Deck, Frs. 49-50	Working Level	1.03	Sight glass
Winch HO Tank (Fwd Stbd), Lower Deck, Frs. 86-87 S	37cm	0.35	Sight glass
Winch HO Tank (Fwd Port), Lower Deck, Frs. 91-94 P	37cm	0.35	Sight glass
Winch HO Tank (Aft Stbd), Lower Deck, Frs. 28-29 S	39cm	0.37	Sight glass
Excel 46 Tank, Lower Deck, Frs. 19-21 S	Working Level	-	
Excel 15 Tank, Lower Deck, Frs. 21-23 S	24cm	-	
Small tank (aft), Separator Room, Fr. 32	Empty	-	Sight glass
600 XP 320 Tank, Separator Room, Fr. 33	330 ltr	0.30	Sight glass
M-GARD 312 Tank, Separator Room, Fr. 34	350 ltr	0.32	Sight glass
Winch HO Tank (Aft Port), Lower Deck, Frs. 29-30 P	40cm	0.38	Sight glass

## **APPENDIX II**

### **ITEMS INCLUDED IN LIGHTWEIGHT**

# JASMINIA

## DEADWEIGHT SURVEY REPORT

### APPENDIX II – ITEMS INCLUDED IN LIGHTWEIGHT

Item	Weight (kg)
<b>Cranes/Personnel Bridge</b>	
Nil items	0
<b>Deckhouse Top</b>	
Nil items	0
<b>5000 Deck</b>	
Nil items	0
<b>4000 Deck</b>	
Firefighting gear in locker, Frs. 83-85	600
SOPEP gear, Frs. 85-87	150
Firefighting equipment, Frs. 55-57 P	150
Firefighting equipment, Frs. 75-77 P	150
<b>3000 Deck</b>	
Batteries, Battery Locker, Frs. 62-64 Ctr	820
Firefighting equipment, Fire Locker ctr, Frs. 62-67	100
<b>2000 Deck</b>	
Firefighting gear, Fire Locker, 62-65	100
<b>Main Deck</b>	
7 x liferafts, fwd stbd liferaft station, Frs. 103-105	1470
Firefighting gear, Fire Locker ctr, Frs. 62-64	75
Emergency towing line, fwd deck, Fr. 105	70
7 x liferafts, fwd port liferaft station, Frs. 103-105	1470
Mooring line, aft stbd deck, Frs. 0-2	200
9 x liferafts, aft stbd liferaft station, Frs. 0-4	1890
7 x liferafts, aft port liferaft station, Frs. 0-4	1470
<b>Lower Deck</b>	
Firefighting gear, Fire Control Room, Frs. 46-50	60

**JASMINIA**

**DEADWEIGHT SURVEY REPORT**

**APPENDIX II – ITEMS INCLUDED IN LIGHTWEIGHT (Continued)**

<b>Item</b>	<b>Weight (kg)</b>
<b>Box Bottom</b>	
Nil items	0
<b>Column Stringer 5</b>	
Nil items	0
<b>Column Stringer 4</b>	
Nil items	0
<b>Column Stringer 3</b>	
Nil items	0
<b>Column Stringer 2</b>	
Nil items	0
<b>Column Stringer 1</b>	
Nil items	0
<b>Pontoon Deck</b>	
Nil items	0
<b>Pontoon Bottom</b>	
Nil items	0
<b>General</b>	
Nil items	0
<b>Total Items Included in Lightweight</b>	<b>8775kg</b>

Note:

See also items listed the “Additional Modifications” section above for items that have been included in lightweight.

**APPENDIX III**

**RECORD OF LIGHTSHIP ALTERATIONS**

**JASMINIA**

**DEADWEIGHT SURVEY REPORT**

**APPENDIX III – RECORD OF LIGHTSHIP ALTERATIONS**

The following page contains a scanned copy of the vessel's record of lightweight alterations which were used to determine the current Recorded Lightweight.

Rec'd 5/29/14

SSV JASMINIA								
LIGHT UNIT CORRECTION LOG								
Date	Changes	weight tonnes	VCG m	V Mom tonnes m	LCG tonnes m	L mom tonnes m	TCG m	T. Mom tonnes m
june '83	tugger winch	0.20	27.00	5.40	-25.00	-5.00	21.00	4.20
jan '84	handrail buoy area	-0.90	31.00	-27.90	-13.00	11.70	15.00	-13.50
dec '84	no. 9 lifeboat removed	-4.50	31.00	-139.50	-14.00	63.00	30.00	-135.00
84	dive platform	28.00	26.20	733.60	-14.00	-392.00	28.00	784.00
84	no. 9 davits removed	-3.50	30.00	-105.00	-14.00	49.00	30.00	-105.00
sep '86	steel rack	-1.90	27.50	-52.25	-19.00	36.10	-8.00	15.20
jun '89	removal of port bunker station	0.50	28.00	14.00	-36.00	-18.00	19.00	9.50
aug '90	4000 deck containers	6.00	36.00	216.00	-13.00	-78.00	18.00	108.00
feb '92	samson post	-2.40	27.00	-64.80	20.00	-48.00	-25.00	60.00
jul '92	paint workshop	1.50	28.50	42.75	-34.00	-51.00	16.00	24.00
jul '93	port crane jib extension	2.30	7.10	16.33	-32.00	-73.60	22.00	50.80
aug '97	crane crutch monkey island	1.70	37.50	63.75	18.00	30.60	19.00	32.30
sep '98	new office	160.00	32.20	5152.00	-12.00	-1920.00	-13.00	-2080.00
nov '98	old 4000 accomodation	-25.00	36.30	-907.50	-4.00	100.00	0.80	-20.00
nov '98	new 4000 accomodation	60.00	38.20	2292.00	-4.00	-240.00	0.80	48.00
dec '98	aft gangway & support	-8.50	25.00	-212.50	-35.50	301.75	-10.00	85.00
aug '99	plate the buoy park	0.90	30.60	27.54	-13.00	-11.70	15.00	13.50
sept '99	aft gangway platform	16.00	31.00	496.00	-37.00	-592.00	-10.00	-160.00
feb '01	pipe rack stbd for d	0.30	37.00	11.10	3.00	0.90	10.00	3.00
mar '01	deck plate	1.20	27.00	32.40	-16.00	-19.20	29.00	34.80
mar '01	deck plate	1.80	27.00	48.60	-14.00	-25.20	25.00	45.00
mar '01	deck plate	1.70	27.00	45.90	-8.00	-13.60	5.00	8.50
mar '01	deck plate	0.80	27.00	21.60	-2.50	-2.00	-14.00	-11.20
apr '01	catwalk under main deck	0.80	24.80	19.84	-30.00	-24.00	0.00	0.00
jul '01	stbd light pipe rack	0.28	36.00	10.08	-19.00	-5.32	5.00	1.40
aug '01	stbd heavy pipe rack	0.70	36.00	25.20	-15.00	-10.50	8.00	5.60
feb '02	dive platform plating	1.20	25.00	30.00	-14.50	-17.40	28.00	33.60
feb '02	L.B. boarding platform	-0.12	27.10	-3.25	-3.00	0.36	27.00	-3.24
may '02	trash compactor	0.80	27.50	22.00	36.50	29.20	19.00	15.20
oct '02	roof & framework pax area	0.80	29.00	23.20	-28.00	-22.40	-8.00	-6.40
may '03	helideck storage tk "save all"	3.90	35.75	139.43	-14.00	-54.60	-2.00	-7.80
june '03	jet A1 tx pump & saveall	0.60	35.70	21.42	-10.00	-6.00	3.00	1.80
mar '04	ISPS lockout gate port aft	0.20	28.00	5.60	-31.00	-6.20	-23.00	-4.60
sept '05	reinforce thruster pad eye	2.20	26.80	58.96	37.50	82.50	0.00	0.00
may '07	Fwd 4000 container	4.00	36.80	147.20	-13.00	-52.00	-18.00	-72.00
may '07	aft 4000 container	4.00	36.80	147.20	-15.00	-60.00	-18.00	-72.00
dec '08	helibund small transfer ext 4000 dk	3.00	36.50	109.50	-12.00	-36.00	1.00	3.00
jan '09	petrol pump attendant kiosk	3.50	37.50	131.25	12.00	42.00	-4.00	-14.00
aug '09	remove heli small transfer ext 4000	-3.00	36.50	-109.50	-12.00	36.00	1.00	-3.00
aug '09	move heli small transfer ext 4000	3.00	36.50	109.50	-15.20	-45.60	-4.00	-12.00
sep '09	helideck storage tk "save all"	-3.90	35.75	-139.43	-14.00	54.60	-2.00	7.80
sep '09	move helideck storage tk "save all"	4.10	35.75	146.58	-12.53	-51.37	9.20	37.72
Jan '10	Trane A/c Unit base	2.30	38.20	87.86	4.00	9.20	-2.00	-4.60
Mar '11	Remove 4000/5000 dk old cabins	-66.00	38.20	-2521.20	-4.00	264.00	0.80	-52.80
Apr '11	New 4000 layer containers	45.50	38.20	1738.10	-4.00	-182.00	0.80	36.40
Apr '11	Beams/Base for 5000 dk cont	3.50	38.60	135.10	-4.00	-14.00	0.80	2.80
Apr '11	New 500 layer containers	44.10	39.20	1728.72	-4.00	-176.40	0.80	35.28
Apr '11	A/C Units ducts 4000/5000 dk	2.50	38.70	96.75	-4.00	-10.00	0.80	2.00
May '11	Stbd aft Protection Bulkhead	3.30	36.50	120.45	-9.00	-29.70	6.00	19.80
July '11	SPS 2 Starboard	4.00	10.60	42.40	28.50	114.00	22.40	89.60
July '11	SPS 2 Port	3.90	10.60	41.34	28.50	111.15	-22.40	-87.36
July '11	SPS 3 Port	2.80	10.60	29.68	13.70	38.36	-22.40	-62.72
Dec '11	SPS 3 Stbd	5.50	10.60	58.30	13.70	75.35	22.40	123.20
Dec '11	Extension waiting area	1.90	28.00	53.20	-27.00	-51.30	-10.00	-19.00
March '12	SPS 4 Stbd	0.33	10.60	3.50	7.00	2.31	21.50	7.10
March '12	SPS 6 Port	3.70	10.60	39.22	-8.12	-30.04	-22.40	-82.88
May '12	SPS 8 Stbd	3.60	10.60	38.16	-33.50	-120.60	22.40	80.64
May '12	SPS 1 Stbd	0.07	10.60	0.74	35.50	2.49	20.50	1.44
Nov '13	Accomodation Container 4000 B	6.00	36.80	220.80	-10.00	-60.00	-18.00	-108.00
Jan '14	Accomodation Container 4000 A	6.00	36.80	220.80	-7.00	-42.00	-18.00	-108.00
<b>TOTALS</b>		319.59		9903.57		-3107.51		-1281.21
<b>GG</b>				30.98836		-9.72342		-4.0089
test		7070						
New light unit weight		7389.59						